

TITLE  
ISOLATION AND EXPRESSION OF A GENE FOR A NITRILASE  
FROM *ACIDOVORAX FACILIS* 72W

ABSTRACT

5           Recombinant microbial strains are provided that express nitrilase enzyme  
and are useful as biocatalysts for the hydrolysis of nitrile-containing substrates.  
The recombinant cells are transformed with a foreign gene isolated from  
*Acidovorax facilis* 72W encoding a thermostable nitrilase enzyme that catalyzes  
10       the hydrolysis of nitrile-containing substrates to carboxylic acids under mild  
reaction conditions. The nucleotide sequence of the nitrilase gene and the  
deduced amino acid sequence encoded by the nitrilase gene are provided.

15

20

25

30

35

LAF/dmm